

Name: \_\_\_\_\_



# ***New York State Testing Program***

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## **2022 Mathematics Test Session 1**

**Grade 3**

**April 26–28, 2022**

**RELEASED QUESTIONS**

# Session 1



## TIPS FOR TAKING THE TEST

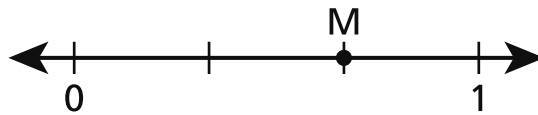
Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before making your choice.
- You have been provided with a ruler to use during the test. Use the ruler whenever you think it will help you to answer the question.

- 1 Mr. Green buys 4 packages of cups. Each package has 8 cups. Which expression can be used to find the number of cups that Mr. Green buys?

- A  $8 \div 4$
- B  $8 - 4$
- C  $8 + 4$
- D  $8 \times 4$

- 2 Which fraction is represented by point M on the number line shown below?

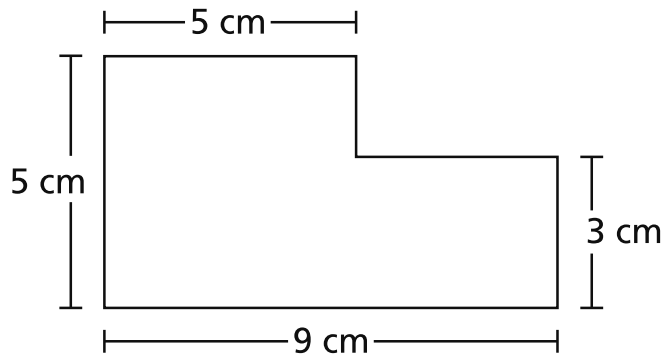


- A  $\frac{3}{4}$
- B  $\frac{2}{4}$
- C  $\frac{3}{2}$
- D  $\frac{2}{3}$

**GO ON**

3

A student made the shape shown below by combining two rectangles.



What is the area, in square centimeters, of the shape the student made?

- A 22
- B 37
- C 45
- D 52

4

A worker has 3 bags of pebbles to use in a garden. The mass of each bag is 9 kilograms. What is the total mass, in kilograms, of all of the bags of pebbles?

- A 3
- B 6
- C 12
- D 27

**GO ON**

**9** Which expression is equivalent to  $5 \times 7$  ?

**A**  $5 + (4 + 3)$

**B**  $5 \times (4 \times 3)$

**C**  $(5 + 3) \times (5 + 4)$

**D**  $(5 \times 3) + (5 \times 4)$

**10** Zach earns the same amount of money each week doing yard work. If he earns \$36 at the end of 4 weeks, how much money does Zach earn each week?

- A \$9
- B \$32
- C \$40
- D \$144

**11** What is the value of  $7 \times 70$ ?

- A 49
- B 77
- C 490
- D 770

**12** A student draws a rectangle on a sheet of paper. He labels two of the sides 1 unit and the other two sides 2 units. What is the area of the rectangle?

- A 2 square units
- B 4 units
- C 4 square units
- D 6 units

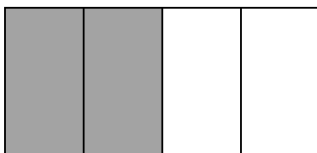
**GO ON**

- 15 What number makes the equation below true?

$$48 \div \underline{\quad ? \quad} = 8$$

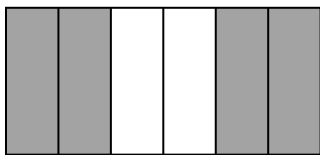
- A 6
- B 7
- C 40
- D 56

- 16 The shaded part of the model below represents a fraction.

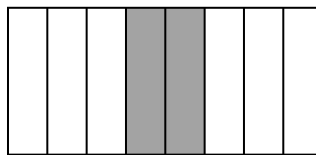


Which figure is shaded to represent a fraction equivalent to the model shown?

A



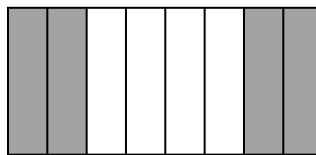
C



B



D

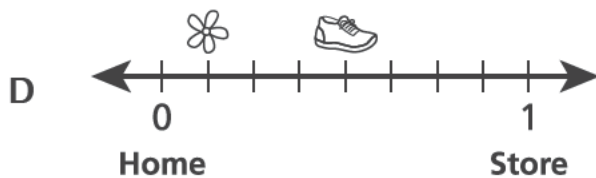
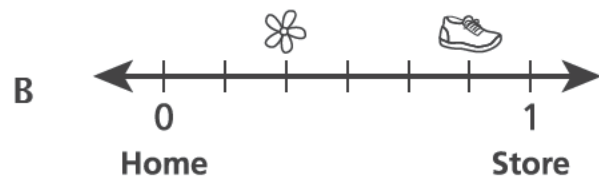
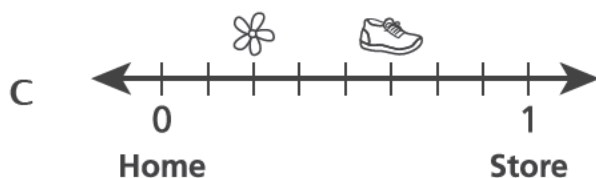
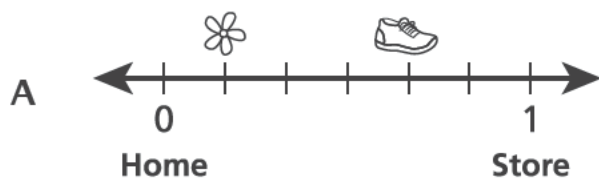


**GO ON**

22

Greg walked 1 mile from his home to a store. After walking  $\frac{2}{6}$  mile, he stopped to smell a flower. After walking another  $\frac{3}{6}$  mile, he stopped to tie his shoe.

Which number line correctly shows the locations where Greg smelled the flower and where he tied his shoe?





Name: \_\_\_\_\_



# ***New York State Testing Program***

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## **2022 Mathematics Test Session 2**

**Grade 3**

**April 26–28, 2022**

**RELEASED QUESTIONS**

# Session 2



## TIPS FOR TAKING THE TEST

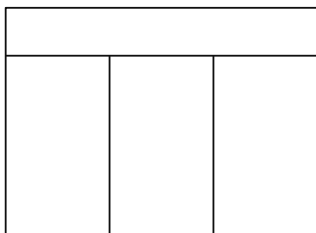
Here are some suggestions to help you do your best:

- Read each question carefully and think about the answer before making your choice or writing your response.
- You have been provided with a ruler to use during the test. Use the ruler whenever you think it will help you to answer the question.
- Be sure to show your work when asked.

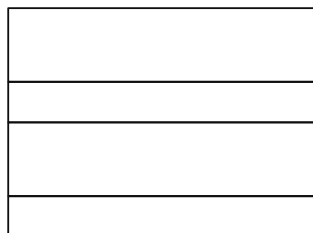
26

Which rectangle is divided into 4 equal parts?

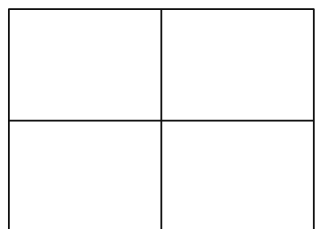
A



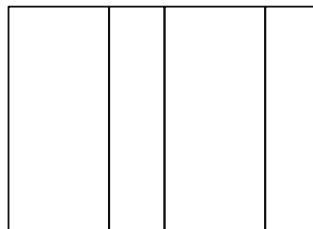
C



B



D



27

A pet store has 4 fish tanks of the same size. A worker puts 10 liters of water in each fish tank. What is the total number of liters of water the worker puts in all of the fish tanks?

A 4

B 6

C 14

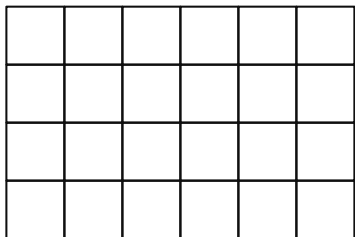
D 40

**GO ON**

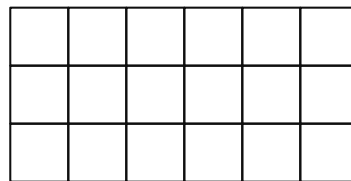
28

Which array represents  $3 \times 6$ ?

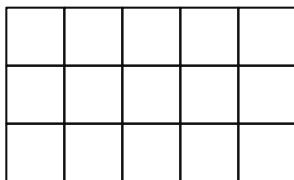
A



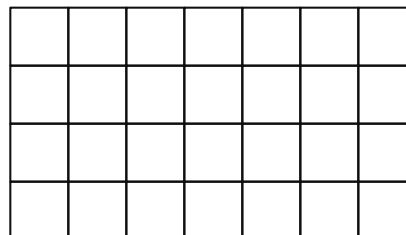
C



B



D



29

Which number pattern uses the rule add 3?

A 2, 6, 18, 48, ...

B 3, 7, 11, 15, ...

C 3, 9, 27, 54, ...

D 4, 7, 10, 13, ...

**GO ON**

**30** Which fraction is less than  $\frac{1}{4}$ ?

**A**  $\frac{2}{4}$

**B**  $\frac{4}{4}$

**C**  $\frac{1}{3}$

**D**  $\frac{1}{6}$

**31** Mica has 35 gumballs. He gives all of them to 7 friends. Each friend gets the same number of gumballs. Which expression can be used to find the number of gumballs Mica gives each friend?

**A**  $35 - 7$

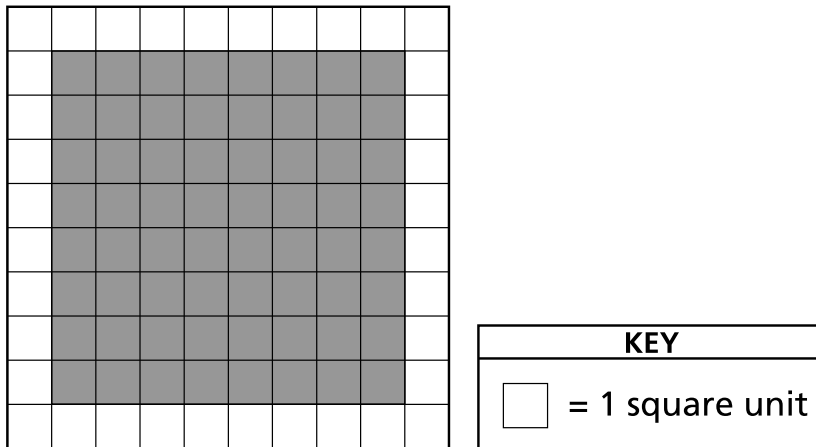
**B**  $35 \div 7$

**C**  $35 + 7$

**D**  $35 \times 7$

**GO ON**

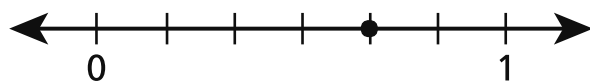
The figure below is made up of unit squares. Some of the unit squares are shaded and some of the unit squares are unshaded.



Which process describes one way to find the area, in square units, of the shaded part of the figure?

- A count all of the unit squares in the entire figure
- B count only the unit squares that are shaded in the figure
- C add up all of the side lengths in the entire figure
- D add up only the side lengths of the shaded part in the figure

The number line below shows a point.



Which equivalent fraction is represented by the location of the point on the number line?

A  $\frac{1}{3}$

B  $\frac{2}{3}$

C  $\frac{2}{4}$

D  $\frac{3}{4}$

34

Three classes are on a field trip at the zoo. The number of students in each class is listed below.

- Class A has 24 students.
- Class B has 23 students.
- Class C has 25 students.

At the zoo, all the students are placed into 8 equal groups. How many students are in each group?

*Show your work.*

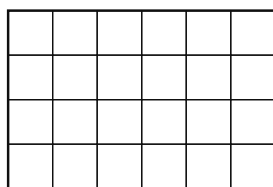
*Answer* \_\_\_\_\_ students


**GO ON**



35

A figure is shown below.



| KEY   |                 |
|---|-----------------|
|  | = 1 square unit |

One more row of 6 unit squares is added to the figure. What is the total area of the new figure after the unit squares are added?

*Show your work.*

*Answer* \_\_\_\_\_ square units

**GO ON**

36

The manager at a movie theater needs to order 267 new seats. If the seats are sold only in groups of 10, what is the **least** number of seats that the manager should order?

*Explain how you know your answer is correct.*

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**GO ON**

**37**

Sam needs to solve the problem shown below.

$$\underline{\quad ? \quad} \times 7 = 63$$

He uses the equation  $63 \div 7 = \underline{\quad ? \quad}$  to find the unknown number. Will this process help Sam solve the problem?

*Explain how you know your answer is correct.*

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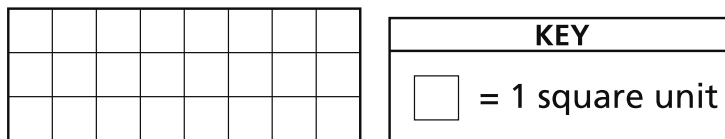
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**GO ON**

38

The figure shown below is made up of unit squares.



Write and solve one addition equation **and** one multiplication equation that can be used to find the area of the figure.

*Show your work.*

**GO ON**

**39**

Write a fraction that has a value greater than  $\frac{3}{8}$  using 3 as the numerator. Be sure to include what you know about fractions in your answer.

*Explain how you know your answer is correct.*

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**GO ON**

40

Selena is training for a race. Last week, she ran 4 miles each day on 3 different days. Use the symbol X to make an array that represents the total number of miles Selena ran last week.

*Show your work.*

This week, Selena plans to run a total of 20 miles. If she runs 4 miles each day, how many days will she need to run this week?

*Show your work.*

*Answer* \_\_\_\_\_ days

**STOP**